



1

SEQUENCE LISTING

<110> CHUA, KAW
SEOW, SEE VOON
KOLATKAR, PRASANNA

<120> MOLECULE

<130> 15700.0002

<140> 10/553,674

<141> 2005-10-17

<150> PCT/SG04/00098

<151> 2004-04-16

<150> GB 0308988.5

<151> 2003-04-17

<160> 488

<170> PatentIn version 3.3

<210> 1

<211> 13

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
oligonucleotide

<220>

<221> modified_base

<222> (1)..(13)

<223> a, c, g, t, unknown or other

<400> 1

nnnnnnnnnn nnn

13

<210> 2

<211> 9

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic
peptide

<220>

<221> MOD_RES

<222> (1)..(9)

<223> Variable amino acid

<400> 2

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

1

5

<210> 3
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 3
 ttgttgatc ccatggagat acacctacat tg 32

<210> 4
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 4
 ttactgaatt cttatggttt ctgagaacag atg 33

<210> 5
 <211> 348
 <212> DNA
 <213> Flammulina velutipes

<400> 5
 atgtccgccca cgtcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60
 tacacccccca actgggggccc tggtacccca agcagctaca tcgacaacct taccttcccc 120
 aagggttctca ccgacaaaaa atactcgtac cgcgtcgtgg tcaatggctc tgaccttggc 180
 gtcgagtcca acttcgcagt gacaccgtcc ggtgggcaga ccatcaactt cctccagtac 240
 aacaaggggt atggtgtcgc ggacacaaaa acgattcaag ttttcgttgt cattccagat 300
 accggcaact cggaggagta catcatcgct gagtggaaga agacttga 348

<210> 6
 <211> 115
 <212> PRT
 <213> Flammulina velutipes

<400> 6
 Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
 1 5 10 15

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 35 40 45

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
 50 55 60

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
 65 70 75 80

Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
 85 90 95

Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp
 100 105 110

Lys Lys Thr
 115

<210> 7

<211> 1038

<212> DNA

<213> Flammulina velutipes

<400> 7

atgtccccta tactaggtta ttggaaaatt aagggccttg tgcaaccac tcgacttctt	60
ttggaatatc ttgaagaaaa atatgaagag catttgtag agcgcgatga aggtgataaa	120
tggcgaaaca aaaagtttga attgggtttg gagtttccca atcttcctta ttatattgat	180
ggtgatgtta aattaacaca gtctatggcc atcatagctt atatagctga caagcacaac	240
atgttgggtg gttgtccaaa agagcgtgca gagatttcaa tgcttgaagg agcggttttg	300
gatattagat acggtgtttc gagaattgca tatagtaaag actttgaaac tctcaaagtt	360
gattttctta gcaagctacc tgaaatgctg aaaatgttcg aagatcgttt atgtcataaa	420
acatatatta atggatgatca tgtaacccat cctgacttca tggtgtatga cgctcttgat	480
gttggttttat acatggaccc aatgtgcctg gatgcgttcc caaaattagt ttgttttaaa	540
aaacgtattg aagctatccc acaaattgat aagtacttga aatccagcaa gtatatagca	600
tggcctttgc agggctggca agccacgttt ggtgggtggcg accatcctcc aaaatcggat	660
ctggaagtgc tgttcagggt gccctggga tcctccgcca cgtcgctcac cttccagctt	720

```

gcctacttgg tgaagaagat cgacttcgac tacaccccca actggggccg tggtagccca      780
agcagctaca tcgacaacct taccttcccc aaggttctca ccgacaaaaa atactcgtac      840
cgcgtcgtgg tcaatggctc tgaccttggc gtcgagtcca acttcgcagt gacaccgtcc      900
ggtgggcaga ccatcaactt cctccagtac aacaaggggt atggtgtcgc ggacacccaa      960
acgattcaag ttttcgttgt cattccagat accggcaact cggaggagta catcatcgct     1020
gagtggaaga agacttga                                           1038

```

<210> 8

<211> 345

<212> PRT

<213> Flammulina velutipes

<400> 8

```

Met Ser Pro Ile Leu Gly Tyr Trp Lys Ile Lys Gly Leu Val Gln Pro
1              5              10              15

```

```

Thr Arg Leu Leu Leu Glu Tyr Leu Glu Glu Lys Tyr Glu Glu His Leu
              20              25              30

```

```

Tyr Glu Arg Asp Glu Gly Asp Lys Trp Arg Asn Lys Lys Phe Glu Leu
              35              40              45

```

```

Gly Leu Glu Phe Pro Asn Leu Pro Tyr Tyr Ile Asp Gly Asp Val Lys
50              55              60

```

```

Leu Thr Gln Ser Met Ala Ile Ile Arg Tyr Ile Ala Asp Lys His Asn
65              70              75              80

```

```

Met Leu Gly Gly Cys Pro Lys Glu Arg Ala Glu Ile Ser Met Leu Glu
              85              90              95

```

```

Gly Ala Val Leu Asp Ile Arg Tyr Gly Val Ser Arg Ile Ala Tyr Ser
              100              105              110

```

```

Lys Asp Phe Glu Thr Leu Lys Val Asp Phe Leu Ser Lys Leu Pro Glu
              115              120              125

```

```

Met Leu Lys Met Phe Glu Asp Arg Leu Cys His Lys Thr Tyr Leu Asn
              130              135              140

```

```

Gly Asp His Val Thr His Pro Asp Phe Met Leu Tyr Asp Ala Leu Asp
145              150              155              160

```


Val Val Leu Tyr Met Asp Pro Met Cys Leu Asp Ala Phe Pro Lys Leu
 165 170 175

Val Cys Phe Lys Lys Arg Ile Glu Ala Ile Pro Gln Ile Asp Lys Tyr
 180 185 190

Leu Lys Ser Ser Lys Tyr Ile Ala Trp Pro Leu Gln Gly Trp Gln Ala
 195 200 205

Thr Phe Gly Gly Gly Asp His Pro Pro Lys Ser Asp Leu Glu Val Leu
 210 215 220

Phe Gln Gly Pro Leu Gly Ser Ser Ala Thr Ser Leu Thr Phe Gln Leu
 225 230 235 240

Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 245 250 255

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 260 265 270

Leu Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp
 275 280 285

Leu Gly Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr
 290 295 300

Ile Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys
 305 310 315 320

Thr Ile Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu
 325 330 335

Tyr Ile Ile Ala Glu Trp Lys Lys Thr
 340 345

<210> 9

<211> 309

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

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<400> 9
atgtccgccga cgtcgttcga ctacaccccc aactgggggcc gtggtacccc aagcagctac      60
atcgacaacc ttaccttccc caaggttctc accgacaaaa aatactcgta ccgcgtcgtg      120
gtcaatggct ctgaccttgg cgtcgagtc aacttcgcag tgacaccgtc cggtgggcag      180
accatcaact tcctccagta caacaagggg tatggtgtcg cggacaccaa aacgattcaa      240
gttttcgttg tcattccaga taccggcaac tcggaggagt acatcatcgc tgagtggaag      300
aagacttga                                     309

```

<210> 10

<211> 102

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 10

```

Met Ser Ala Thr Ser Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
1           5           10           15

```

```

Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp
          20           25           30

```

```

Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val
          35           40           45

```

```

Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe
          50           55           60

```

```

Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln
65           70           75           80

```

```

Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile
          85           90           95

```

```

Ala Glu Trp Lys Lys Thr
          100

```

<210> 11

<211> 303

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 11

```

atgtccgccca cgtcgcgtcac cttccagctt gcctacttgg tgaagaagat cgacatcgac      60
aaccttacct tccccaaggt tctcaccgac aaaaaatact cgtaccgcgt cgtgggtcaat      120
ggctctgacc ttggcgtcga gtccaacttc gcagtgcacac cgtccggtgg gcagaccatc      180
aacttcctcc agtacaacaa ggggtatggg gtcgcggaca ccaaaacgat tcaagttttc      240
gttgtcattc cagataccgg caactcggag gagtacatca tcgctgagtg gaagaagact      300
tga                                                                    303

```

<210> 12

<211> 100

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 12

```

Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
1           5           10           15

```

```

Ile Asp Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys
          20           25           30

```

```

Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser
          35           40           45

```

```

Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln
          50           55           60

```

```

Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe
65           70           75           80

```

```

Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu
          85           90           95

```

```

Trp Lys Lys Thr
          100

```

<210> 13
 <211> 309
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 13
 atgtccgccca cgtcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60
 tacaccccca actggggccg tggtaaccca agcagctaca aatactcgta ccgcgctcgtg 120
 gtcaatggct ctgaccttgg cgtcgagtcc aacttcgcag tgacaccgtc cggtagggcag 180
 accatcaact tcctccagta caacaagggg tatggtgtcg cggacaccaa aacgattcaa 240
 gttttcgttg tcattccaga taccggcaac tcggaggagt acatcatcgc tgagtggaag 300
 aagacttga 309

<210> 14
 <211> 102
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 14
 Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
 1 5 10 15
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 20 25 30
 Tyr Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val
 35 40 45
 Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe
 50 55 60
 Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln
 65 70 75 80
 Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile
 85 90 95

Ala Glu Trp Lys Lys Thr
100

<210> 15
<211> 306
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 15
atgtccgccca cgtcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60
tacacccccca actgggggccg tgggtaccccc agcagctaca tcgacaacct taccttcccc 120
aagggttctca ccgacaaaagt cgagtccaac ttcgcagtga caccgtccgg tgggcagacc 180
atcaacttcc tccagtacaa caaggggtat ggtgtcgcgg acaccaaaac gattcaagtt 240
ttcgttgtca ttccagatac cggcaactcg gaggagtaca tcatcgctga gtggaagaag 300
acttga 306

<210> 16
<211> 101
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 16
Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
1 5 10 15

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Val Glu
35 40 45

Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu
50 55 60

Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val
65 70 75 80

```
<210> 17
<211> 312
<212> DNA
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence: Synthetic
      nucleotide sequence
```

<400> 17							
atgtccgcca	cgtcgctcac	cttcagctt	gcctacttgg	tgaagaagat	cgacttcgac		60
tacaccccca	actggggcgg	tggtagccca	agcagctaca	tgcacaacct	taccttcccc		120
aaggtttctc	ccgacaaaaa	atactcgtac	cgcgtcgtgg	tcaatggctc	tgaccttggc		180
cagaccatca	acttcctcca	gtacaacaag	gggtatggtg	tgcgagacac	caaaacgatt		240
caagttttcg	ttgtcattcc	agataccggc	aactcggagg	agtacatcat	cgctgagtgg		300
aaqaaqactt	ga						312

```
<210> 18
<211> 103
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence: Synthetic
      protein sequence
```

```
<400> 18
Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
1           5           10           15
```

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
35 40 45

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Gln Thr Ile Asn
50 55 60

Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile
 65 70 75 80

Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile
 85 90 95

Ile Ala Glu Trp Lys Lys Thr
 100

<210> 19

<211> 312

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 19

atgtccgccca cgctcgctcac cttccagctt gcttacttgg tgaagaagat cgacttcgac 60
 tacacccccca actgggggccg tggtagcccca agcagctaca tcgacaacct taccttcccc 120
 aaggttctca ccgacaaaaa atactcgtac cgcgtcgtgg tcaatggctc tgaccttggc 180
 gtcgagtcca acttcgcagt gacaccgtcc ggtgggggtg tcgcggacac caaaacgatt 240
 caagttttcg ttgtcattcc agataccggc aactcggagg agtacatcat cgctgagtgg 300
 aagaagactt ga 312

<210> 20

<211> 103

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 20

Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
 1 5 10 15

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 35 40 45

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
50 55 60

Phe Ala Val Thr Pro Ser Gly Gly Gly Val Ala Asp Thr Lys Thr Ile
65 70 75 80

Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile
85 90 95

Ile Ala Glu Trp Lys Lys Thr
100

<210> 21

<211> 312

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 21

atgtccgccca cgtcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60

tacacccccca actggggccg tggtagccca agcagctaca tcgacaacct taccttcccc 120

aagggttctca ccgacaaaaa atactcgtag cgcgtcgtgg tcaatggctc tgaccttggc 180

gtcgagtcca acttcgcagt gacaccgtcc ggtgggcaga ccatcaactt cctccagtac 240

aacaaggggt atgtcattcc agataccggc aactcggagg agtacatcat cgctgagtgg 300

aagaagactt ga 312

<210> 22

<211> 102

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 22

Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
1 5 10 15

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
20 25 30

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
50 55 60

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
65 70 75 80

Asn Lys Gly Tyr Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile
85 90 95

Ala Glu Trp Lys Lys Thr
100

```
<210> 23
<211> 321
<212> DNA
<213> Artificial Sequence
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```
<220>
<223> Description of Artificial Sequence: Synthetic
      nucleotide sequence
```

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<400> 23
atgtccgccg cgctcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac      60
tacacccccca actgggggccc tggtacccca agcagctaca tcgacaacct taccttcccc      120
aaggtttctca ccgacaaaaa atactcgtac cgcgtcgtgg tcaatggctc tgaccttggc      180
gtcgagtcca acttcgcagt gacaccgtcc ggtgggcaga ccatcaactt cctccagtac      240
aacaaggggt atggtgtcgc ggacacccaaa acgattcaag ttttcgttgt ctacatcatc      300
gctgagtggg agaagacttg a                                321
```

```
<210> 24
<211> 106
<212> PRT
<213> Artificial Sequence
```

```
<220>
<223> Description of Artificial Sequence: Synthetic
      protein sequence
```

```
<400> 24
Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
1           5           10          15
```

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 35 40 45

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
 50 55 60

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
 65 70 75 80

Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
 85 90 95

Val Tyr Ile Ile Ala Glu Trp Lys Lys Thr
 100 105

<210> 25

<211> 321

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 25

atgtccgccac cgctcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60

tacacccccca actgggggccg tggtagcccca agcagctaca tcgacaacct taccttcccc 120

aagggttctca cgcacaaaaa atactcgtag cgcgctcgtag tcaatggctc tgaccttggc 180

gtcgagtcca acttcgcagt gacaccgtcc ggtgggcaga ccatcaactt cctccagtac 240

aacaaggggt atggtgtcgc ggacacaaaa acgattcaag ttttcgttgt cattccagat 300

accggcaact cggaggagtg a 321

<210> 26

<211> 106

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 protein sequence

15

<400> 26

Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
1 5 10 15

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
35 40 45

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
50 55 60

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
65 70 75 80

Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
85 90 95

Val Ile Pro Asp Thr Gly Asn Ser Glu Glu
100 105

<210> 27

<211> 237

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 27

atgtccgccca cgtcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60

tacacccccca actggggccg tggtagcccca agcagctaca tcgacaacct taccttcccc 120

aaggttctca ccgacaaaaa atactcgtac cgcgtcgtgg tcaatggctc tgaccttggc 180

attccagata ccggcaactc ggaggagtac atcatcgctg agtggaagaa gacttga 237

<210> 28

<211> 78

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 28

Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
 1 5 10 15

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 35 40 45

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Ile Pro Asp Thr
 50 55 60

Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp Lys Lys Thr
 65 70 75

<210> 29

<211> 138

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 29

aatggctctg accttggcgt cgagtcacaac ttcgcagtga caccgtccgg tgggcagacc 60

atcaacttcc tccagtacaa caaggggtat ggtgtcgcgg acaccaaaac gattcaagtt 120

ttcgttgtca ttccagat 138

<210> 30

<211> 46

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 30

Asn Gly Ser Asp Leu Gly Val Glu Ser Asn Phe Ala Val Thr Pro Ser
 1 5 10 15

Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val
 20 25 30

Ala Asp Thr Lys Thr Ile Gln Val Phe Val Val Ile Pro Asp
 35 40 45

<210> 31
 <211> 348
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 31
 atgtccgccca cgtcgcctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60
 tacacccccca actggggcgc aggtacccccca agcagctaca tcgacaacct taccttcccc 120
 aagggttctca ccgacaaaaa atactcgtag cgcgtcgtgg tcaatggctc tgaccttggc 180
 gtcgagtcca acttcgcagt gacaccgtcc ggtgggcaga ccatcaactt cctccagtac 240
 aacaaggggt atggtgtcgc ggacacccaaa acgattcaag ttttcgttgt cattccagat 300
 accggcaact cggaggagta catcatcgct gagtggaaga agacttga 348

<210> 32
 <211> 115
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 32
 Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
 1 5 10 15
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Ala Gly Thr Pro Ser Ser
 20 25 30
 Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 35 40 45
 Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
 50 55 60
 Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
 65 70 75 80
 Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
 85 90 95

Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp
 100 105 110

Lys Lys Thr
 115

<210> 33

<211> 348

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 33

atgtccgccca	cgtcgctcac	cttcagctt	gcctacttgg	tgaagaagat	cgacttcgac	60
tacacccccca	actggggccg	tgcaaccccc	agcagctaca	tcgacaacct	taccttcccc	120
aaggttctca	ccgacaaaaa	atactcgta	cgcgctgtgg	tcaatggctc	tgaccttggc	180
gtcgagtcca	acttcgcagt	gacaccgtcc	ggtagggcaga	ccatcaactt	cctccagtac	240
aacaaggggt	atggtgtcgc	ggacaccaaa	acgattcaag	ttttcgttgt	cattccagat	300
accggcaact	cggaggagta	catcatcgct	gagtggaaga	agacttga		348

<210> 34

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 34

Met	Ser	Ala	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys
1				5				10						15	

Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Ala	Thr	Pro	Ser	Ser
			20					25					30		

Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr	Asp	Lys	Lys	Tyr
		35					40					45			

Ser	Tyr	Arg	Val	Val	Val	Asn	Gly	Ser	Asp	Leu	Gly	Val	Glu	Ser	Asn
			50			55					60				

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
65 70 75 80

Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
85 90 95

Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp
100 105 110

Lys Lys Thr
115

<210> 35

<211> 348

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 35

atgtccgccca cgtcgctcac cttccagctt gcctacttgg tgaagaagat cgacttcgac 60

tacacccccca actgggggccg tgggtgcacca agcagctaca tcgacaacct taccttcccc 120

aagggttctca cgcacaaaaa atactcgtac cgcgctcgtgg tcaatggctc tgaccttggc 180

gtcgagtcca acttcgcagt gacaccgtcc ggtgggcaga ccatcaactt cctccagtac 240

aacaaggggt atggtgtcgc ggacaccaa acgattcaag ttttcgttgt cattccagat 300

accggcaact cggaggagta catcatcgct gagtggaaga agacttga 348

<210> 36

<211> 115

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 36

Met Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
1 5 10 15

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Ala Pro Ser Ser
20 25 30

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 35 40 45

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
 50 55 60

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
 65 70 75 80

Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
 85 90 95

Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp
 100 105 110

Lys Lys Thr
 115

<210> 37

<211> 696

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 37

caagagcaca agccaaagaa ggatgatttc cgaaacgaat tcgatcactt gttgatcgaa	60
caggcaaacc atgctatcga aaagggagaa catcaattgc tttacttgca acaccaactc	120
gacgaattga atgaaaacaa gagcaaggaa ttgcaagaga aaatcattcg agaacttgat	180
gttgtttgcg ccatgatcga aggagcccaa ggagctttgg aacgtgaatt gaagcgaact	240
gatcttaaca ttttggaacg attcaactac gaagaggctc aaactctcag caagatcttg	300
cttaaggatt tgaaggaaac cgaacaaaaa gtgaaggata ttcaaaccac atccgccacg	360
tcgctcacct tccagcttgc ctacttggtg aagaagatcg acttcgacta caccaccaac	420
tggggccgtg gtacccaag cagctacatc gacaacctta ccttcccaa gggtctcacc	480
gacaaaaaat actcgtaccg cgtcgtggtc aatggctctg accttggcgt cgagtccaac	540
ttcgcagtga caccgtccgg tgggcagacc atcaacttcc tccagtacaa caaggggtat	600
ggtgtcgcgg acacaaaaac gattcaagtt ttcgttgtca ttccagatac cggcaactcg	660
gaggagtaca tcatcgctga gtggaagaag acttga	696

<210> 38

<211> 231

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 38

Gln	Glu	His	Lys	Pro	Lys	Lys	Asp	Asp	Phe	Arg	Asn	Glu	Phe	Asp	His
1				5					10					15	

Leu	Leu	Ile	Glu	Gln	Ala	Asn	His	Ala	Ile	Glu	Lys	Gly	Glu	His	Gln
			20					25					30		

Leu	Leu	Tyr	Leu	Gln	His	Gln	Leu	Asp	Glu	Leu	Asn	Glu	Asn	Lys	Ser
		35					40					45			

Lys	Glu	Leu	Gln	Glu	Lys	Ile	Ile	Arg	Glu	Leu	Asp	Val	Val	Cys	Ala
	50					55					60				

Met	Ile	Glu	Gly	Ala	Gln	Gly	Ala	Leu	Glu	Arg	Glu	Leu	Lys	Arg	Thr
65					70					75				80	

Asp	Leu	Asn	Ile	Leu	Glu	Arg	Phe	Asn	Tyr	Glu	Glu	Ala	Gln	Thr	Leu
			85						90					95	

Ser	Lys	Ile	Leu	Leu	Lys	Asp	Leu	Lys	Glu	Thr	Glu	Gln	Lys	Val	Lys
			100					105					110		

Asp	Ile	Gln	Thr	Gln	Ser	Ala	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Ala	Tyr
		115					120					125			

Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly
	130					135						140			

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
145					150					155					160

Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val	Val	Val	Asn	Gly	Ser	Asp	Leu	Gly
				165					170					175	

Val	Glu	Ser	Asn	Phe	Ala	Val	Thr	Pro	Ser	Gly	Gly	Gln	Thr	Ile	Asn
			180					185					190		

Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile
 195 200 205

Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile
 210 215 220

Ile Ala Glu Trp Lys Lys Thr
 225 230

<210> 39
 <211> 696
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 39
 caagagcaca agccaaagaa ggatgatttc cgaaacgaat tcgatcactt gttgatcgaa 60
 caggcaaacc atgctatcga aaagggagaa catcaattgc tttacttgca acaccaactc 120
 gacgaattga atgaaaacaa gagcaaggaa ttgcaagaga aaatcattcg agaacttgat 180
 gttgttttgcg ccatgatcga aggagcccaa ggagcttttg aacgtgaatt gaagcgaact 240
 gatcttaaca ttttggaacg attcaactac gaagaggctc aaactctcag caagatcttg 300
 cttaaggatt tgaaggaaac cgaacaaaaa gtgaaggata ttcaaaccac atccgccacg 360
 tcgctcacct tccagcttgc ctacttggtg aagaagatcg acttcgacta caccccaac 420
 tggggcgcag gtacccaag cagctacatc gacaacctta ccttcccaa ggttctcacc 480
 gacaaaaaat actcgtaccg cgtcgtggtc aatggctctg accttggcgt cgagtccaac 540
 ttcgcagtga caccgtccgg tgggcagacc atcaacttcc tccagtacaa caaggggtat 600
 ggtgtcgcgg acacaaaac gattcaagtt ttcgttgtca ttccagatac cggcaactcg 660
 gaggagtaca tcatcgctga gtggaagaag acttga 696

<210> 40
 <211> 231
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 40

Gln Glu His Lys Pro Lys Lys Asp Asp Phe Arg Asn Glu Phe Asp His
 1 5 10 15

Leu Leu Ile Glu Gln Ala Asn His Ala Ile Glu Lys Gly Glu His Gln
 20 25 30

Leu Leu Tyr Leu Gln His Gln Leu Asp Glu Leu Asn Glu Asn Lys Ser
 35 40 45

Lys Glu Leu Gln Glu Lys Ile Ile Arg Glu Leu Asp Val Val Cys Ala
 50 55 60

Met Ile Glu Gly Ala Gln Gly Ala Leu Glu Arg Glu Leu Lys Arg Thr
 65 70 75 80

Asp Leu Asn Ile Leu Glu Arg Phe Asn Tyr Glu Glu Ala Gln Thr Leu
 85 90 95

Ser Lys Ile Leu Leu Lys Asp Leu Lys Glu Thr Glu Gln Lys Val Lys
 100 105 110

Asp Ile Gln Thr Gln Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr
 115 120 125

Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Ala Gly
 130 135 140

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
 145 150 155 160

Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly
 165 170 175

Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn
 180 185 190

Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile
 195 200 205

Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile
 210 215 220

Ile Ala Glu Trp Lys Lys Thr
225 230

<210> 41
<211> 696
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 41
caagagcaca agccaaagaa ggatgatttc cgaaacgaat tcgatcactt gttgatcgaa 60
caggcaaacc atgctatcga aaagggagaa catcaattgc ttacttgca acaccaactc 120
gacgaattga atgaaaacaa gagcaaggaa ttgcaagaga aaatcattcg agaacttgat 180
gttgtttgcg ccatgatcga aggagcccaa ggagctttgg aacgtgaatt gaagcgaact 240
gatcttaaca ttttggaacg attcaactac gaagaggctc aaactctcag caagatcttg 300
cttaaggatt tgaaggaaac cgaacaaaaa gtgaaggata ttcaaacca atccgccacg 360
tcgctcacct tccagcttgc ctacttggtg aagaagatcg acttcgacta ccccccaac 420
tggggccgtg gtgcaccaag cagctacatc gacaacctta ccttcccaa ggttctcacc 480
gacaaaaaat actcgtaccg cgtcgtggtc aatggctctg accttggcgt cgagtccaac 540
ttcgcagtga caccgtccgg tgggcagacc atcaacttcc tccagtacaa caaggggtat 600
ggtgtcgcgg acacaaaaac gattcaagtt ttcgttgtca ttccagatac cggcaactcg 660
gaggagtaca tcatcgctga gtggaagaag acttga 696

<210> 42
<211> 231
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 42
Gln Glu His Lys Pro Lys Lys Asp Asp Phe Arg Asn Glu Phe Asp His
1 5 10 15

Leu Leu Ile Glu Gln Ala Asn His Ala Ile Glu Lys Gly Glu His Gln
20 25 30

25

Leu Leu Tyr Leu Gln His Gln Leu Asp Glu Leu Asn Glu Asn Lys Ser
35 40 45

Lys Glu Leu Gln Glu Lys Ile Ile Arg Glu Leu Asp Val Val Cys Ala
50 55 60

Met Ile Glu Gly Ala Gln Gly Ala Leu Glu Arg Glu Leu Lys Arg Thr
65 70 75 80

Asp Leu Asn Ile Leu Glu Arg Phe Asn Tyr Glu Glu Ala Gln Thr Leu
85 90 95

Ser Lys Ile Leu Leu Lys Asp Leu Lys Glu Thr Glu Gln Lys Val Lys
100 105 110

Asp Ile Gln Thr Gln Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr
115 120 125

Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
130 135 140

Ala Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
145 150 155 160

Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly
165 170 175

Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn
180 185 190

Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile
195 200 205

Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile
210 215 220

Ile Ala Glu Trp Lys Lys Thr
225 230

<210> 43

<211> 732

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

<400> 43

```

gatcaagtcg atgtcaaaga ttgtgccaat catgaaatca aaaaagtttt ggtaccagga      60
tgccatgggtt cagaacccatg tatcattcat cgtggtaaac cattccaatt ggaagccggt      120
ttcgaagcca accaaaacac aaaaacggct aaaattgaaa tcaaagcctc aatcgatggt      180
ttagaagttg atgttcccgg tatcgatcca aatgcatgcc attacatgaa atgccattg      240
gttaaaggac aacaatatga tattaaatat acatggaatg ttccgaaaat tgcacaaaaa      300
tctgaaaatg ttgtcgtcac tgtaaagtt atgggtgatg atgggtgttt ggctgtgct      360
attgctactc atgctaaaat ccgcgattcc gccacgtcgc tcaccttcca gcttgcttac      420
ttggtgaaga agatcgactt cgactacacc cccaactggg gcgcaggtac cccaagcagc      480
tacatcgaca accttacctt cccaagggtt ctcaccgaca aaaaatactc gtaccgcgtc      540
gtggtcaatg gctctgacct tggcgtcgag tccaacttcg cagtgcacac gtccgggtgg      600
cagaccatca acttctctca gtacaacaag gggatatggtg tcgcggacac caaacgatt      660
caagttttcg ttgtcattcc agataccggc aactcggagg agtacatcat cgctgagtgg      720
aagaagactt ga                                                                732

```

<210> 44

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 44

```

Asp Gln Val Asp Val Lys Asp Cys Ala Asn His Glu Ile Lys Lys Val
1           5           10           15

Leu Val Pro Gly Cys His Gly Ser Glu Pro Cys Ile Ile His Arg Gly
          20           25           30

Lys Pro Phe Gln Leu Glu Ala Val Phe Glu Ala Asn Gln Asn Thr Lys
          35           40           45

Thr Ala Lys Ile Glu Ile Lys Ala Ser Ile Asp Gly Leu Glu Val Asp
50           55           60

```

Val Pro Gly Ile Asp Pro Asn Ala Cys His Tyr Met Lys Cys Pro Leu
65 70 75 80

Val Lys Gly Gln Gln Tyr Asp Ile Lys Tyr Thr Trp Asn Val Pro Lys
85 90 95

Ile Ala Pro Lys Ser Glu Asn Val Val Val Thr Val Lys Val Met Gly
100 105 110

Asp Asp Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile Arg
115 120 125

Asp Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
130 135 140

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Ala Gly Thr Pro Ser Ser
145 150 155 160

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
165 170 175

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
180 185 190

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
195 200 205

Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
210 215 220

Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp
225 230 235 240

Lys Lys Thr

<210> 45

<211> 732

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
nucleotide sequence

```

<400> 45
gatcaagtcg atgtcaaaga ttgtgccaat catgaaatca aaaaagtttt ggtaccagga      60
tgccatgggt cagaaccatg tatcattcat cgtggtaaac cattccaatt ggaagccggt      120
ttcgaagcca accaaaacac aaaaacggct aaaattgaaa tcaaagcctc aatcgatggt      180
ttagaagttg atgttcccggt tatcgatcca aatgcatgcc attacatgaa atgcccattg      240
gttaaaggac aacaatatga tattaaatat acatggaatg ttccgaaaat tgcacaaaaa      300
tctgaaaatg ttgtcgtcac tggtaaagtt atgggtgatg atgggtgtttt ggctgtgct      360
attgctactc atgctaaaat ccgcgattcc gccacgtcgc tcaccttcca gcttgcctac      420
ttggtgaaga agatcgactt cgactacacc cccaactggg gccgtggtgc accaagcagc      480
tacatcgaca accttacctt cccaaggtt ctcaccgaca aaaaatactc gtaccgcgtc      540
gtggtcaatg gctctgacct tggcgtcgag tccaacttcg cagtgcacac gtccggtggg      600
cagaccatca acttcctcca gtacaacaag gggatatggtg tcgcggacac caaacgatt      660
caagttttcg ttgtcattcc agataccggc aactcggagg agtacatcat cgctgagtgg      720
aagaagactt ga                                                                732

```

<210> 46

<211> 243

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 46

```

Asp Gln Val Asp Val Lys Asp Cys Ala Asn His Glu Ile Lys Lys Val
1           5           10           15

```

```

Leu Val Pro Gly Cys His Gly Ser Glu Pro Cys Ile Ile His Arg Gly
          20           25           30

```

```

Lys Pro Phe Gln Leu Glu Ala Val Phe Glu Ala Asn Gln Asn Thr Lys
          35           40           45

```

```

Thr Ala Lys Ile Glu Ile Lys Ala Ser Ile Asp Gly Leu Glu Val Asp
50           55           60

```

```

Val Pro Gly Ile Asp Pro Asn Ala Cys His Tyr Met Lys Cys Pro Leu
65           70           75           80

```


Val Lys Gly Gln Gln Tyr Asp Ile Lys Tyr Thr Trp Asn Val Pro Lys
 85 90 95

Ile Ala Pro Lys Ser Glu Asn Val Val Val Thr Val Lys Val Met Gly
 100 105 110

Asp Asp Gly Val Leu Ala Cys Ala Ile Ala Thr His Ala Lys Ile Arg
 115 120 125

Asp Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys
 130 135 140

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Ala Pro Ser Ser
 145 150 155 160

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 165 170 175

Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn
 180 185 190

Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr
 195 200 205

Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val
 210 215 220

Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp
 225 230 235 240

Lys Lys Thr

<210> 47

<211> 1083

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 47

caagagcaca agccaaagaa ggatgatttc cgaaacgaat tcgatcactt gttgatcgaa 60

caggcaaacc atgctatcga aaagggagaa catcaattgc tttacttgca acaccaactc 120

```

gacgaattga atgaaaacaa gagcaaggaa ttgcaagaga aaatcattcg agaacttgat 180
gttgtttgcg ccatgatcga aggagcccaa ggagctttgg aacgtgaatt gaagcgaact 240
gatcttaaca ttttggaaac attcaactac gaagaggctc aaactctcag caagatcttg 300
cttaaggatt tgaaggaaac cgaacaaaaa gtgaaggata ttcaaaccga agatcaagtc 360
gatgtcaaag attgtgcaa tcatgaaatc aaaaaagttt tggtagcagg atgccatggt 420
tcagaaccat gtatcattca tcgtggtaaa ccattccaat tggaagccgt tttcgaagcc 480
aaccaaaaca caaaaacggc taaaattgaa atcaaagcct caatcgatgg tttagaagtt 540
gatgttcccg gtatcgatcc aaatgcatgc cattacatga aatgcccatt ggtaaagga 600
caacaatatg atattaaata tacatggaat gttccgaaaa ttgcaccaa atctgaaaaat 660
gttgctgca ctgttaaagt tatgggtgat gatgggtgtt tggcctgtgc tattgctact 720
catgctaaaa tccgcgattc cgccacgtcg ctcaccttc agcttgccca cttggtgaag 780
aagatcgact tcgactacac cccaactgg ggcgaggta cccaagcag ctacatcgac 840
aaccttacct tcccaaggt tctcaccgac aaaaaatact cgtaccgct cgtggtcaat 900
ggctctgacc ttggcgctga gtccaacttc gcagtgcac cgtccggtgg gcagaccatc 960
aacttcctcc agtacaacaa ggggtatggt gtcgcggaca ccaaacgat tcaagttttc 1020
gttgtcattc cagataccgg caactcggag gagtacatca tcgctgagtg gaagaagact 1080
tga 1083

```

<210> 48

<211> 360

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 48

```

Gln Glu His Lys Pro Lys Lys Asp Asp Phe Arg Asn Glu Phe Asp His
1           5           10          15

```

```

Leu Leu Ile Glu Gln Ala Asn His Ala Ile Glu Lys Gly Glu His Gln
20           25           30

```

```

Leu Leu Tyr Leu Gln His Gln Leu Asp Glu Leu Asn Glu Asn Lys Ser
35           40           45

```

Lys Glu Leu Gln Glu Lys Ile Ile Arg Glu Leu Asp Val Val Cys Ala
 50 55 60

Met Ile Glu Gly Ala Gln Gly Ala Leu Glu Arg Glu Leu Lys Arg Thr
 65 70 75 80

Asp Leu Asn Ile Leu Glu Arg Phe Asn Tyr Glu Glu Ala Gln Thr Leu
 85 90 95

Ser Lys Ile Leu Leu Lys Asp Leu Lys Glu Thr Glu Gln Lys Val Lys
 100 105 110

Asp Ile Gln Thr Gln Asp Gln Val Asp Val Lys Asp Cys Ala Asn His
 115 120 125

Glu Ile Lys Lys Val Leu Val Pro Gly Cys His Gly Ser Glu Pro Cys
 130 135 140

Ile Ile His Arg Gly Lys Pro Phe Gln Leu Glu Ala Val Phe Glu Ala
 145 150 155 160

Asn Gln Asn Thr Lys Thr Ala Lys Ile Glu Ile Lys Ala Ser Ile Asp
 165 170 175

Gly Leu Glu Val Asp Val Pro Gly Ile Asp Pro Asn Ala Cys His Tyr
 180 185 190

Met Lys Cys Pro Leu Val Lys Gly Gln Gln Tyr Asp Ile Lys Tyr Thr
 195 200 205

Trp Asn Val Pro Lys Ile Ala Pro Lys Ser Glu Asn Val Val Val Thr
 210 215 220

Val Lys Val Met Gly Asp Asp Gly Val Leu Ala Cys Ala Ile Ala Thr
 225 230 235 240

His Ala Lys Ile Arg Asp Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala
 245 250 255

Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Ala
 260 265 270

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 275 280 285

Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu
 290 295 300

Gly Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile
 305 310 315 320

Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr
 325 330 335

Ile Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr
 340 345 350

Ile Ile Ala Glu Trp Lys Lys Thr
 355 360

<210> 49

<211> 212

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 49

Met His Gly Asp Thr Pro Thr Leu His Glu Tyr Met Leu Asp Leu Gln
 1 5 10 15

Pro Glu Thr Thr Asp Leu Tyr Cys Tyr Glu Gln Leu Asn Asp Ser Ser
 20 25 30

Glu Glu Glu Asp Glu Ile Asp Gly Pro Ala Gly Gln Ala Glu Pro Asp
 35 40 45

Arg Ala His Tyr Asn Ile Val Thr Phe Cys Cys Lys Cys Asp Ser Thr
 50 55 60

Leu Arg Leu Cys Val Gln Ser Thr His Val Asp Ile Arg Thr Leu Glu
 65 70 75 80

Asp Leu Leu Met Gly Thr Leu Gly Ile Val Cys Pro Ile Cys Ser Gln
 85 90 95

Lys Pro Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys
 100 105 110

Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Ala Pro Ser
 115 120 125

Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys
 130 135 140

Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu Gly Val Glu Ser
 145 150 155 160

Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln
 165 170 175

Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr Ile Gln Val Phe
 180 185 190

Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu
 195 200 205

Trp Lys Lys Thr
 210

<210> 50

<211> 639

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 50

atgcatggag atacacctac attgcatgaa tatatgtag atttgcaacc agagacaact	60
gatctctact gttatgagca attaatgac agctcagagg aggaggatga aatagatggg	120
ccagctggac aagcagaacc ggacagagcc cattacaata ttgtaacctt ttgttgcaag	180
tgtgactcta cgcttcgggt gtgcgtacaa agcacacacg tagacattcg tactttggaa	240
gacctgttaa tgggcacact aggaattgtg tgccccatct gttctcagaa accatccgcc	300
acgtcgctca ccttcagct tgcctacttg gtgaagaaga tcgacttcga ctacaccccc	360
aactggggcc gtggtgcacc aagcagctac atcgacaacc ttaccttccc caaggttctc	420
accgacaaaa aatactcgta ccgcgtcgtg gtcaatggct ctgaccttgg cgtcgagtcc	480
aacttcgcag tgacaccgtc cgggtgggcag accatcaact tcctccagta caacaagggg	540

tatggtgtcg cggacaccaa aacgattcaa gttttcgttg tcattccaga taccggcaac 600
 tcggaggagt acatcatcgc tgagtggaag aagacttga 639

<210> 51
 <211> 282
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 51
 Met Ser Thr Asn Pro Lys Pro Gln Arg Lys Thr Lys Arg Asn Thr Asn
 1 5 10 15
 Arg Arg Pro Gln Asp Val Lys Phe Pro Gly Gly Gly Gln Ile Val Gly
 20 25 30
 Gly Val Tyr Leu Leu Pro Arg Arg Gly Pro Arg Leu Gly Val Arg Ala
 35 40 45
 Thr Arg Lys Thr Ser Glu Arg Ser Gln Pro Arg Gly Arg Arg Gln Pro
 50 55 60
 Ile Pro Lys Ala Arg Gln Pro Glu Gly Arg Ala Trp Ala Gln Pro Gly
 65 70 75 80
 Tyr Pro Trp Pro Leu Tyr Gly Asn Glu Gly Leu Gly Trp Ala Gly Trp
 85 90 95
 Leu Leu Ser Pro Arg Gly Ser Arg Pro Ser Trp Gly Pro Thr Asp Pro
 100 105 110
 Arg Arg Arg Ser Arg Asn Leu Gly Lys Val Ile Asp Thr Leu Thr Cys
 115 120 125
 Gly Phe Ala Asp Leu Met Gly Tyr Leu Pro Leu Val Tyr Ala Thr Gly
 130 135 140
 Asn Leu Pro Gly Cys Ser Phe Ser Ile Phe Leu Leu Ala Leu Leu Ser
 145 150 155 160
 Cys Leu Thr Ile Pro Ala Ser Ala Ser Ala Thr Ser Leu Thr Phe Gln
 165 170 175

Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 180 185 190

Gly Arg Gly Ala Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 195 200 205

Val Leu Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser
 210 215 220

Asp Leu Gly Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln
 225 230 235 240

Thr Ile Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr
 245 250 255

Lys Thr Ile Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu
 260 265 270

Glu Tyr Ile Ile Ala Glu Trp Lys Lys Thr
 275 280

<210> 52

<211> 856

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 52

atgagcacga atcctaaacc tcaaagaaaa accaaacgta acaccaaccg ccgcccacag	60
gacgtcaagt tcccgggagg tggtcagatc gtcgggtggag tttacctggt gccgcgcagg	120
ggccccaggt tgggtgtgcg cgcgactagg aagacttccg agcggtcgca acctcgtgga	180
aggcgacaac ctatcccaa ggctcgccag cccgagggta gggcctgggc tcagcccggg	240
tacccttggc ccctctatgg caatgagggc ttgggggtggg caggatggct cctgtcaccc	300
cgtggctctc ggctagtgtg gggccccacg gacccccggc gtaggtcgcg caatttgggt	360
aagggtcatcg ataccctcac gtgcggcttc gccgatctca tgggggtacct tccgctcgtc	420
ggcgcaacag ggaatctgcc cggttgctcc ttttctatct tccttttggc tttgctgtcc	480
tgtttgacca tcccagcttc cgcttatgaa gtccgccacg tcgctcacct tccagcttgc	540
ctacttggtg aagaagatcg acttcgacta ccccccaac tggggccgtg gtgcaccaag	600

```

cagctacatc gacaacctta ccttcccca ggttctcacc gacaaaaaat actcgtaccg      660
cgtcgtggtc aatggctctg accttggcgt cgagtcacaac ttcgcagtga caccgtccgg      720
tgggcagacc atcaacttcc tccagtacaa caaggggtat ggtgtcgcgg acaccaaaac      780
gattcaagtt ttcgttgtca ttccagatac cggcaactcg gaggagtaca tcatcgctga      840
gtggaagaag acttga                                                         856

```

<210> 53

<211> 428

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 53

```

Met Pro Leu Glu Gln Arg Ser Gln His Cys Lys Pro Glu Glu Gly Leu
1           5           10           15

```

```

Glu Ala Arg Gly Glu Ala Leu Gly Leu Val Gly Ala Gln Ala Pro Ala
          20           25           30

```

```

Thr Glu Glu Gln Glu Ala Ala Ser Ser Ser Ser Thr Leu Val Glu Val
          35           40           45

```

```

Thr Leu Gly Glu Val Pro Ala Ala Glu Ser Pro Asp Pro Pro Gln Ser
50           55           60

```

```

Pro Gln Gly Ala Ser Ser Leu Pro Thr Thr Met Asn Tyr Pro Leu Trp
65           70           75           80

```

```

Ser Gln Ser Tyr Glu Asp Ser Ser Asn Gln Glu Glu Glu Gly Pro Ser
          85           90           95

```

```

Thr Phe Pro Asp Leu Glu Ser Glu Phe Gln Ala Ala Leu Ser Arg Lys
          100          105          110

```

```

Val Ala Glu Leu Val His Phe Leu Leu Leu Lys Tyr Arg Ala Arg Glu
          115          120          125

```

```

Pro Val Thr Lys Ala Glu Met Leu Gly Ser Val Val Gly Asn Trp Gln
130           135          140

```


Tyr Phe Phe Pro Val Ile Phe Ser Lys Ala Ser Ser Ser Leu Gln Leu
 145 150 155 160

Val Phe Gly Ile Glu Leu Met Glu Val Asp Pro Ile Gly His Leu Tyr
 165 170 175

Ile Phe Ala Thr Cys Leu Gly Leu Ser Tyr Asp Gly Leu Leu Gly Asp
 180 185 190

Asn Gln Ile Met Pro Lys Ala Gly Leu Leu Ile Ile Val Leu Ala Ile
 195 200 205

Ile Ala Arg Glu Gly Asp Cys Ala Pro Glu Glu Lys Ile Trp Glu Glu
 210 215 220

Leu Ser Val Leu Glu Val Phe Glu Gly Arg Glu Asp Ser Ile Leu Gly
 225 230 235 240

Asp Pro Lys Lys Leu Leu Thr Gln His Phe Val Gln Glu Asn Tyr Leu
 245 250 255

Glu Tyr Arg Gln Val Pro Gly Ser Asp Pro Ala Cys Tyr Glu Phe Leu
 260 265 270

Trp Gly Pro Arg Ala Leu Val Glu Thr Ser Tyr Val Lys Val Leu His
 275 280 285

His Met Val Lys Ile Ser Gly Gly Pro His Ile Ser Tyr Pro Pro Leu
 290 295 300

His Glu Trp Val Leu Arg Glu Gly Glu Glu Ser Ala Thr Ser Leu Thr
 305 310 315 320

Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro
 325 330 335

Asn Trp Gly Arg Gly Ala Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 340 345 350

Pro Lys Val Leu Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn
 355 360 365

Gly Ser Asp Leu Gly Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly
 370 375 380

Gly Gln Thr Ile Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala
 385 390 395 400

Asp Thr Lys Thr Ile Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn
 405 410 415

Ser Glu Glu Tyr Ile Ile Ala Glu Trp Lys Lys Thr
 420 425

<210> 54

<211> 1287

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 54

```

atgcctcttg agcagaggag tcagcactgc aagcctgaag aaggccttga ggcccgagga      60
gaggcccttg gcctggtggg tgcgcaggct cctgctactg aggagcagga ggctgcctcc      120
tcctcttcta ctctagttga agtcaccctg ggggaggtgc ctgctgccga gtcaccagat      180
cctccccaga gtctcaggg agcctccagc ctccccacta ccatgaacta ccctctctgg      240
agccaatcct atgaggactc cagcaaccaa gaagaggagg ggccaagcac cttccctgac      300
ctggagtccg agttccaagc agcactcagt aggaaggtgg ccgagttggt tcattttctg      360
ctctcaagt atcgagccag ggagccggtc acaaaggcag aaatgctggg gagtgtcgtc      420
ggaaattggc agtatttctt tcctgtgatc ttcagcaaag cttccagttc cttgcagctg      480
gtctttggca tcgagctgat ggaagtggac cccatcggcc acttgtacat ctttgccacc      540
tgcttgggcc tctcctacga tggcctgctg ggtgacaatc agatcatgcc caaggcaggc      600
ctcctgataa tcgtcctggc cataatcgca agagagggcg actgtgcccc tgaggagaaa      660
atctgggagg agctgagtgt gttagaggtg tttgagggga gggaagacag tatcttgggg      720
gatcccaaga agctgctcac ccaacatttc gtgcaggaaa actacctgga gtaccggcag      780
gtccccggca gtgactcctgc atgttatgaa ttcctgtggg gtccaagggc cctcgttgaa      840
accagctatg tgaaagtccg gcaccatatg gtaaagatca gtggaggacc tcacatttcc      900
taccacccc tgcatgagtg ggttttgaga gagggggaag agtccgccac gtcgctcacc      960
ttccagcttg cctacttggt gaagaagatc gacttcgact acacccccaa ctggggccgt     1020

```

```

ggtgcaccaa gcagctacat cgacaacctt accttcccca aggttctcac cgacaaaaaa 1080
tactcgtacc gcgtcgtggt caatggctct gaccttggcg tcgagtccaa cttcgcagtg 1140
acaccgtccg gtgggcagac catcaacttc ctccagtaca acaaggggta tgggtgtcgcg 1200
gacaccaaaa cgattcaagt tttcgttgtc attccagata cgggcaactc ggaggagtag 1260
atcatcgctg agtggaagaa gacttga 1287

```

<210> 55

<211> 232

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
protein sequence

<400> 55

```

Met Pro Arg Glu Asp Ala His Phe Ile Tyr Gly Tyr Pro Lys Lys Gly
1           5           10           15

```

```

His Gly His Ser Tyr Thr Thr Ala Glu Glu Ala Ala Gly Ile Gly Ile
          20           25           30

```

```

Leu Thr Val Ile Leu Gly Val Leu Leu Leu Ile Gly Cys Trp Tyr Cys
          35           40           45

```

```

Arg Arg Arg Asn Gly Tyr Arg Ala Leu Met Asp Lys Ser Leu His Val
          50           55           60

```

```

Gly Thr Gln Cys Ala Leu Thr Arg Arg Cys Pro Gln Glu Gly Phe Asp
65           70           75           80

```

```

His Arg Asp Ser Lys Val Ser Leu Gln Glu Lys Asn Cys Glu Pro Val
          85           90           95

```

```

Val Pro Asn Ala Pro Pro Ala Tyr Glu Lys Leu Ser Ala Glu Gln Ser
          100          105          110

```

```

Pro Pro Pro Tyr Ser Pro Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala
          115          120          125

```

```

Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
          130          135          140

```

Gly Ala Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 145 150 155 160

Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn Gly Ser Asp Leu
 165 170 175

Gly Val Glu Ser Asn Phe Ala Val Thr Pro Ser Gly Gly Gln Thr Ile
 180 185 190

Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly Val Ala Asp Thr Lys Thr
 195 200 205

Ile Gln Val Phe Val Val Ile Pro Asp Thr Gly Asn Ser Glu Glu Tyr
 210 215 220

Ile Ile Ala Glu Trp Lys Lys Thr
 225 230

<210> 56

<211> 699

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 56

```

atgccaagag aagatgctca cttcatctat ggttacccca agaaggggca cggccactct      60
tacaccacgg ctgaagaggc cgctgggatc ggcatcctga cagtgatcct gggagtctta      120
ctgctcatcg gctgttggtt ttgtagaaga cgaaatggat acagagcctt gatggataaa      180
agtcttcatg ttggcactca atgtgcctta acaagaagat gcccacaaga agggtttgat      240
catcgggaca gcaaagtgtc tcttcaagag aaaaactgtg aacctgtggt tcccaatgct      300
ccacctgctt atgagaaact ctctgcagaa cagtcaccac caccttattc accttccgcc      360
acgtcgctca ccttccagct tgcctacttg gtgaagaaga tcgacttcga ctacaccccc      420
aactggggcc gtggtgcacc aagcagctac atcgacaacc ttaccttccc caaggttctc      480
accgacaaaa aatactcgta ccgcgtcgtg gtcaatggct ctgaccttgg cgtcgagtcc      540
aacttcgcag tgacaccgtc cgggtgggcag accatcaact tcctccagta caacaagggg      600
tatggtgtcg cggacaccaa aacgattcaa gttttcggtt tcattccaga taccggcaac      660
tcggaggagt acatcatcgc tgagtggaa gaaacttga                                699

```

<210> 57
 <211> 782
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 protein sequence

<400> 57
 Lys Leu Thr Ile Glu Ser Thr Pro Phe Asn Val Ala Glu Gly Lys Glu
 1 5 10 15
 Val Leu Leu Leu Val His Asn Leu Pro Gln His Leu Phe Gly Tyr Ser
 20 25 30
 Trp Tyr Lys Gly Glu Arg Val Asp Gly Asn Arg Gln Ile Ile Gly Tyr
 35 40 45
 Val Ile Gly Thr Gln Gln Ala Thr Pro Gly Pro Ala Tyr Ser Gly Arg
 50 55 60
 Glu Ile Ile Tyr Pro Asn Ala Ser Leu Leu Ile Gln Asn Ile Ile Gln
 65 70 75 80
 Asn Asp Thr Gly Phe Tyr Thr Leu His Val Ile Lys Ser Asp Leu Val
 85 90 95
 Asn Glu Glu Ala Thr Gly Gln Phe Arg Val Tyr Pro Glu Leu Pro Lys
 100 105 110
 Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu Asp Lys Asp Ala
 115 120 125
 Val Ala Phe Thr Cys Glu Pro Glu Thr Gln Asp Ala Thr Tyr Leu Trp
 130 135 140
 Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln Leu Ser
 145 150 155 160
 Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn Val Thr Arg Asn Asp Thr
 165 170 175
 Ala Ser Tyr Lys Cys Glu Thr Gln Asn Pro Val Ser Ala Arg Arg Ser
 180 185 190

Asp Ser Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Ala Pro Thr Ile
 195 200 205

Ser Pro Leu Asn Thr Ser Tyr Arg Ser Gly Glu Asn Leu Asn Leu Ser
 210 215 220

Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Phe Val Asn
 225 230 235 240

Gly Thr Phe Gln Gln Ser Thr Gln Glu Leu Phe Ile Pro Asn Ile Thr
 245 250 255

Val Asn Asn Ser Gly Ser Tyr Thr Cys Gln Ala His Asn Ser Asp Thr
 260 265 270

Gly Leu Asn Arg Thr Thr Val Thr Thr Ile Thr Val Tyr Ala Glu Pro
 275 280 285

Pro Lys Pro Phe Ile Thr Ser Asn Asn Ser Asn Pro Val Glu Asp Glu
 290 295 300

Asp Ala Val Ala Leu Thr Cys Glu Pro Glu Ile Gln Asn Thr Thr Tyr
 305 310 315 320

Leu Trp Trp Val Asn Asn Gln Ser Leu Pro Val Ser Pro Arg Leu Gln
 325 330 335

Leu Ser Asn Asp Asn Arg Thr Leu Thr Leu Leu Ser Val Thr Arg Asn
 340 345 350

Asp Val Gly Pro Tyr Glu Cys Gly Ile Gln Asn Glu Leu Ser Val Asp
 355 360 365

His Ser Asp Pro Val Ile Leu Asn Val Leu Tyr Gly Pro Asp Asp Pro
 370 375 380

Thr Ile Ser Pro Ser Tyr Thr Tyr Tyr Arg Pro Gly Val Asn Leu Ser
 385 390 395 400

Leu Ser Cys His Ala Ala Ser Asn Pro Pro Ala Gln Tyr Ser Trp Leu
 405 410 415

Ile Asp Gly Asn Ile Gln Gln His Thr Gln Glu Leu Phe Ile Ser Asn
 420 425 430

Ile Thr Glu Lys Asn Ser Gly Leu Tyr Thr Cys Gln Ala Asn Asn Ser
 435 440 445

Ala Ser Gly His Ser Arg Thr Thr Val Lys Thr Ile Thr Val Ser Ala
 450 455 460

Glu Leu Pro Lys Pro Ser Ile Ser Ser Asn Asn Ser Lys Pro Val Glu
 465 470 475 480

Asp Lys Asp Ala Val Ala Phe Thr Cys Glu Pro Glu Ala Gln Asn Thr
 485 490 495

Thr Tyr Leu Trp Trp Val Asn Gly Gln Ser Leu Pro Val Ser Pro Arg
 500 505 510

Leu Gln Leu Ser Asn Gly Asn Arg Thr Leu Thr Leu Phe Asn Val Thr
 515 520 525

Arg Asn Asp Ala Arg Ala Tyr Val Cys Gly Ile Gln Asn Ser Val Ser
 530 535 540

Ala Asn Arg Ser Asp Pro Val Thr Leu Asp Val Leu Tyr Gly Pro Asp
 545 550 555 560

Thr Pro Ile Ile Ser Pro Pro Asp Ser Ser Tyr Leu Ser Gly Ala Asn
 565 570 575

Leu Asn Leu Ser Cys His Ser Ala Ser Asn Pro Ser Pro Gln Tyr Ser
 580 585 590

Trp Arg Ile Asn Gly Ile Pro Gln Gln His Thr Gln Val Leu Phe Ile
 595 600 605

Ala Lys Ile Thr Pro Asn Asn Asn Gly Thr Tyr Ala Cys Phe Val Ser
 610 615 620

Asn Leu Ala Thr Gly Arg Asn Asn Ser Ile Val Lys Ser Ile Thr Val
 625 630 635 640

Ser Ala Ser Gly Thr Ser Pro Gly Leu Ser Ala Gly Ala Thr Val Gly
 645 650 655

Ile Met Ile Gly Val Leu Val Gly Val Ala Leu Ile Ser Ala Thr Ser
 660 665 670

Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr
 675 680 685

Thr Pro Asn Trp Gly Arg Gly Ala Pro Ser Ser Tyr Ile Asp Asn Leu
 690 695 700

Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val
 705 710 715 720

Val Asn Gly Ser Asp Leu Gly Val Glu Ser Asn Phe Ala Val Thr Pro
 725 730 735

Ser Gly Gly Gln Thr Ile Asn Phe Leu Gln Tyr Asn Lys Gly Tyr Gly
 740 745 750

Val Ala Asp Thr Lys Thr Ile Gln Val Phe Val Val Ile Pro Asp Thr
 755 760 765

Gly Asn Ser Glu Glu Tyr Ile Ile Ala Glu Trp Lys Lys Thr
 770 775 780

<210> 58

<211> 2349

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 nucleotide sequence

<400> 58

aagctcacta ttgaatccac gccgttcaat gtcgcagagg ggaaggaggt gcttctactt	60
gtccacaatc tgccccagca tctttttggc tacagctggt acaaagggtga aagagtggat	120
ggcaaccgtc aaattatagg atatgtaata ggaactcaac aagctacccc agggcccgca	180
tacagtggtc gagagataat ataccccaat gcatccctgc tgatccagaa catcatccag	240
aatgacacag gattctacac cctacacgtc ataaagtcag atcttgtgaa tgaagaagca	300
actggccagt tccgggtata cccggagctg cccaagccct ccatctccag caacaactcc	360
aaacccgtgg aggacaagga tgctgtggcc ttcacctgtg aacctgagac tcaggacgca	420

acctacctgt ggtgggtaaa caatcagagc ctcccgggtca gtcccaggct gcagctgtcc	480
aatggcaaca ggaccctcac tctattcaat gtcacaagaa atgacacagc aagctacaaa	540
tgtgaaaccc agaaccaggt gagtgccagg cgcagtgatt cagtcacctc gaatgtcttc	600
tatggccccg atgccccac catttccct ctaaacacat cttacagatc aggggaaaaat	660
ctgaacctct cctgccatgc agcctctaac ccacctgcac agtactcttg gtttgtcaat	720
gggactttcc agcaatccac ccaagagctc tttatcccca acatcactgt gaataatagt	780
ggatcctata cgtgccaaagc ccataactca gacactggcc tcaataggac cacagtcacg	840
acgatcacag tctatgcaga gccacccaaa cccttcatca ccagcaacaa ctccaacccc	900
gtggaggatg aggatgctgt agccttaacc tgtgaacctg agattcagaa cacaacctac	960
ctgtgggtggg taaataatca gagcctcccg gtcagtccca ggctgcagct gtccaatgac	1020
aacaggaccc tcaactctact cagtgtcaca aggaatgatg taggacccta tgagtgtgga	1080
atccagaacg aattaagtgt tgaccacagc gaccagtcac tctgaatgt cctctatggc	1140
ccagacgacc ccaccatttc cccctcatc acctattacc gtccaggggt gaacctcagc	1200
ctctcctgcc atgcagcctc taaccacact gcacagtatt cttggctgat tgatgggaac	1260
atccagcaac acacacaaga gctctttatc tccaacatca ctgagaagaa cagcggactc	1320
tatacctgcc aggccataaa ctcagccagt ggccacagca ggactacagt caagacaatc	1380
acagtctctg cggagctgcc caagccctcc atctccagca acaactcaa acccgtggag	1440
gacaaggatg ctgtggcctt cacctgtgaa cctgaggctc agaacacaac ctacctgtgg	1500
tgggtaaatg gtcagagcct ccagtcagt ccagggctgc agctgtcaa tggcaacagg	1560
accctcactc tattcaatgt cacaagaaat gacgcaagag cctatgtatg tggaatccag	1620
aactcagtga gtgcaaaccg cagtgacca gtcaccctgg atgtcctcta tgggccggac	1680
acccccatca tttccccccc agactcgtct tacctttcgg gagcgaacct caacctctcc	1740
tgccactcgg cctctaacct atccccgag tattcttggc gtatcaatgg gataccgacg	1800
caacacacac aagttctctt tatcgccaaa atcacgcaa ataataacgg gacctatgcc	1860
tgttttgtct ctaacttggc tactggccgc aataattcca tagtcaagag catcacagtc	1920
tctgcatctg gaacttctcc tggctctctc gctggggcca ctgtcggcat catgattgga	1980
gtgctggttg gggttgctct gatatccgcc acgtcgctca ccttcagct tgccacttg	2040
gtgaagaaga tcgacttcga ctacaccccc aactggggcc gtgggtgcacc aagcagctac	2100
atcgacaacc ttaccttccc caaggttctc accgacaaaa aatactcgta ccgcgtcgtg	2160

gtcaatggct ctgaccttgg cgtcgagtcc aacttcgcag tgacaccgtc cgggtgggcag 2220
 accatcaact tcctccagta caacaagggg tatggtgtcg cggacaccaa aacgattcaa 2280
 gttttcgttg tcattccaga taccggcaac tcggaggagt acatcatcgc tgagtggaag 2340
 aagacttga 2349

<210> 59
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 59
 ggatcctccg ccacgtcgtt cgactacacc cccaac 36

<210> 60
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 60
 gttgggggtg tagtcgaacg acgtggcgga ggatcc 36

<210> 61
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 61
 ttggtgaaga agatcgacat cgacaacctt accttc 36

<210> 62
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 primer

<400> 62
 gaaggtaagg ttgtcgatgt cgatcttctt caccaa 36

<210> 63
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 63
 ggtaccccaa gcagctacaa atactcgtag cgcgtc 36

<210> 64
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 64
 gacgcggtac gagtatttgt agctgcttgg ggtacc 36

<210> 65
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 65
 aaggttctca ccgacaaagt cgagtccaac ttcgca 36

<210> 66
 <211> 36
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic primer

<400> 66
 tgcgaagttg gactcgactt tgctggtgag aacctt 36

<210> 67
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 67
aatggctctg accttgcca gaccatcaac ttcctc 36

<210> 68
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 68
gaggaagttg atggtctggc caaggtcaga gccatt 36

<210> 69
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 69
gtgacaccgt ccggtggggg tgtcgcgac accaaa 36

<210> 70
<211> 36
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
primer

<400> 70
tttgggtgtcc gcgacacccc caccggacgg tgtcac 36

<210> 71
<211> 36
<212> DNA
<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 71

cagtacaaca aggggtatat tccagatacc ggcaac

36

<210> 72

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic primer

<400> 72

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36

<210> 73

<211> 36

<212> DNA

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<400> 73

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36

<210> 74

<211> 36

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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36

<210> 75

<211> 39

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic primer

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39

<210> 76
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<210> 77
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<210> 78
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<210> 79
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<210> 83
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<210> 84
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<210> 85
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<210> 86
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<210> 87
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<400> 87
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<210> 88
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<400> 88
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<210> 89
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<210> 90
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<210> 91
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<210> 92
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 Trp Gly Arg Gly Thr
 1 5

<210> 93
 <211> 5
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<220>
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<400> 93
Gly Arg Gly Thr Pro
1 5

<210> 94
<211> 5
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<220>
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Arg Gly Thr Pro Ser
1 5

<210> 95
<211> 5
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<220>
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Gly Thr Pro Ser Ser
1 5

<210> 96
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Thr Pro Ser Ser Tyr
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<210> 97
<211> 6
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<220>

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Asn Trp Gly Arg Gly Thr
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<210> 98

<211> 6

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Trp Gly Arg Gly Thr Pro
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<210> 99

<211> 6

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 99

Gly Arg Gly Thr Pro Ser
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<210> 100

<211> 6

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 100

Arg Gly Thr Pro Ser Ser
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<210> 101

<211> 6

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 101

Gly Thr Pro Ser Ser Tyr
1 5

<210> 102

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 102

Thr Pro Ser Ser Tyr Ile
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<210> 103

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

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Pro Asn Trp Gly Arg Gly Thr
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<210> 104

<211> 7

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Asn Trp Gly Arg Gly Thr Pro
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<210> 105

<211> 7

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

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Trp Gly Arg Gly Thr Pro Ser
1 5

<210> 106

<211> 7

<212> PRT

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Gly Arg Gly Thr Pro Ser Ser
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<210> 107

<211> 7

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 107

Arg Gly Thr Pro Ser Ser Tyr
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<210> 108

<211> 7

<212> PRT

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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 108

Gly Thr Pro Ser Ser Tyr Ile
1 5

<210> 109

<211> 7

<212> PRT

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<220>
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peptide

<400> 109
Thr Pro Ser Ser Tyr Ile Asp
1 5

<210> 110
<211> 8
<212> PRT
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peptide

<400> 110
Thr Pro Asn Trp Gly Arg Gly Thr
1 5

<210> 111
<211> 8
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peptide

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Pro Asn Trp Gly Arg Gly Thr Pro
1 5

<210> 112
<211> 8
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peptide

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Asn Trp Gly Arg Gly Thr Pro Ser
1 5

<210> 113
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Trp Gly Arg Gly Thr Pro Ser Ser
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<210> 114
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Gly Arg Gly Thr Pro Ser Ser Tyr
1 5

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Arg Gly Thr Pro Ser Ser Tyr Ile
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<210> 116
<211> 8
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<400> 116
Gly Thr Pro Ser Ser Tyr Ile Asp
1 5

<210> 117
<211> 8
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 117

Thr Pro Ser Ser Tyr Ile Asp Asn
1 5

<210> 118

<211> 9

<212> PRT

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<400> 118

Tyr Thr Pro Asn Trp Gly Arg Gly Thr
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<211> 9

<212> PRT

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<400> 119

Thr Pro Asn Trp Gly Arg Gly Thr Pro
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<210> 120

<211> 9

<212> PRT

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<400> 120

Pro Asn Trp Gly Arg Gly Thr Pro Ser
1 5

<210> 121

<211> 9

<212> PRT

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<400> 121

Asn Trp Gly Arg Gly Thr Pro Ser Ser
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<210> 122

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 122

Trp Gly Arg Gly Thr Pro Ser Ser Tyr
1 5

<210> 123

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 123

Gly Arg Gly Thr Pro Ser Ser Tyr Ile
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<210> 124

<211> 9

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 124

Arg Gly Thr Pro Ser Ser Tyr Ile Asp
1 5

<210> 125

<211> 9

<212> PRT

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<220>
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<400> 125
 Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5

<210> 126
 <211> 9
 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 126
 Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5

<210> 127
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 <212> PRT
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<220>
 <223> Description of Artificial Sequence: Synthetic peptide

<400> 127
 Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
 1 5 10

<210> 128
 <211> 10
 <212> PRT
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<220>
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<400> 128
 Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10

<210> 129
 <211> 10
 <212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 129

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser
1				5					10

<210> 130

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 130

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser
1				5					10

<210> 131

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 131

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr
1				5					10

<210> 132

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 132

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile
1				5					10

<210> 133

<211> 10

<212> PRT

<213> Artificial Sequence

<220>
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<400> 133
 Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10

<210> 134
 <211> 10
 <212> PRT
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<220>
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<400> 134
 Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10

<210> 135
 <211> 10
 <212> PRT
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<220>
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<400> 135
 Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10

<210> 136
 <211> 10
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<400> 136
 Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10

<210> 137
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 <212> PRT
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<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 137

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
1 5 10

<210> 138

<211> 11

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 138

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
1 5 10

<210> 139

<211> 11

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 139

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
1 5 10

<210> 140

<211> 11

<212> PRT

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<400> 140

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
1 5 10

<210> 141

<211> 11

<212> PRT

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<220>
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<400> 141
 Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10

<210> 142
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 142
 Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10

<210> 143
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 143
 Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10

<210> 144
 <211> 11
 <212> PRT
 <213> Artificial Sequence

<220>
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<400> 144
 Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10

<210> 145
 <211> 11
 <212> PRT
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<400> 145

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
1 5 10

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<211> 11

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 146

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
1 5 10

<210> 147

<211> 11

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 147

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
1 5 10

<210> 148

<211> 12

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 148

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
1 5 10

<210> 149

<211> 12

<212> PRT

<213> Artificial Sequence

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<400> 149

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
1 5 10

<210> 150

<211> 12

<212> PRT

<213> Artificial Sequence

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Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
1 5 10

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<211> 12

<212> PRT

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<400> 151

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
1 5 10

<210> 152

<211> 12

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<400> 152

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
1 5 10

<210> 153

<211> 12

<212> PRT

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<220>

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<400> 153

Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
1 5 10

<210> 154

<211> 12

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<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 154

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
1 5 10

<210> 155

<211> 12

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 155

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
1 5 10

<210> 156

<211> 12

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 156

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
1 5 10

<210> 157

<211> 12

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 157

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
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<210> 158

<211> 12

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 158

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
1 5 10

<210> 159

<211> 12

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<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 159

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
1 5 10

<210> 160

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 160

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
1 5 10

<210> 161

<211> 13

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 161

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
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<211> 13

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 162

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
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<223> Description of Artificial Sequence: Synthetic peptide

<400> 163

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
1 5 10

<210> 164

<211> 13

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 164

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
1 5 10

<210> 165

<211> 13

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 165

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
1 5 10

<210> 166

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 166

Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
1 5 10

<210> 167

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 167

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
1 5 10

<210> 168

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 168

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
1 5 10

<210> 169

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 169

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
1 5 10

<210> 170

<211> 13

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 170

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
1 5 10

<210> 171

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 171

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
1 5 10

<210> 172

<211> 13

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 172

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
1 5 10

<210> 173

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 173

Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
1 5 10

<210> 174

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 174

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
1 5 10

<210> 175

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 175

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
1 5 10

<210> 176

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 176

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
1 5 10

<210> 177

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 177

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
1 5 10

<210> 178

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 178

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
1 5 10

<210> 179

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 179

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
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<210> 180

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 180

Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
1 5 10

<210> 181

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 181

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
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<210> 182

<211> 14

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 182

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
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<210> 183

<211> 14

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 183

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
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<210> 184

<211> 14

<212> PRT

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<223> Description of Artificial Sequence: Synthetic peptide

<400> 184

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
1 5 10

<210> 185

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 185

Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
1				5					10				

<210> 186

<211> 14

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 186

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val
1				5					10				

<210> 187

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 187

Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
1				5					10				15	

<210> 188

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 188

Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
1				5					10				15	

<210> 189

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 189

Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser
1				5					10					15

<210> 190

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 190

Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser
1				5					10					15

<210> 191

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 191

Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr
1				5					10					15

<210> 192

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 192

Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile
1				5					10					15

<210> 193

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 193

Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp
1				5					10					15

<210> 194

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 194

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn
1				5				10						15

<210> 195

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 195

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu
1				5				10						15

<210> 196

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 196

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr
1				5				10						15

<210> 197

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 197

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe
1				5				10						15

<210> 198

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 198

Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro
1				5				10						15

<210> 199

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 199

Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
1				5				10						15

<210> 200

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 200

Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val
1				5				10						15

<210> 201

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 201

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu
1				5					10					15

<210> 202

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 202

Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
1				5					10					15	

<210> 203

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 203

Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
1				5					10					15	

<210> 204

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 204

Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser
1				5					10					15	

<210> 205

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 205

Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser
1				5					10					15	

<210> 206

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 206

Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr
1				5					10					15	

<210> 207

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 207

Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile
1				5					10					15	

<210> 208

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 208

Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp
1				5					10					15	

<210> 209

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 209

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
1 5 10 15

<210> 210

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 210

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
1 5 10 15

<210> 211

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 211

Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
1 5 10 15

<210> 212

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 212

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
1 5 10 15

<210> 213

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 213

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro
1				5				10						15	

<210> 214

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 214

Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
1				5				10						15	

<210> 215

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 215

Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val
1				5				10						15	

<210> 216

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 216

Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu
1				5				10						15	

<210> 217

<211> 16

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 217

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
1				5					10					15	

<210> 218

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 218

Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly
1				5					10					15	

Thr

<210> 219

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 219

Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
1				5					10					15	

Pro

<210> 220

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 220

Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
1				5					10					15	

Ser

<210> 221
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 221
 Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser

<210> 222
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 222
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr

<210> 223
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 223
 Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile

<210> 224
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 224
 Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp

<210> 225
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 225
 Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10 15

Asn

<210> 226
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 226
 Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10 15

Leu

<210> 227
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 227
 Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr

<210> 228
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 228
 Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10 15

Phe

<210> 229
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 229
 Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 1 5 10 15

Pro

<210> 230
 <211> 17
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 230

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro
1				5					10					15	

Lys

<210> 231

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 231

Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
1				5					10					15	

Val

<210> 232

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 232

Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val
1				5					10					15	

Leu

<210> 233

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 233

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr

<210> 234

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 234

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
 1 5 10 15

Asp

<210> 235

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 235

Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
 1 5 10 15

Gly Thr

<210> 236

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 236

Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
 1 5 10 15

Thr Pro

<210> 237
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 237
 Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
 1 5 10 15

Pro Ser

<210> 238
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 238
 Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10 15

Ser Ser

<210> 239
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 239
 Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr

<210> 240
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 240
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile

<210> 241
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 241
 Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp

<210> 242
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 242
 Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp Asn

<210> 243
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 243
 Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10 15

Asn Leu

<210> 244
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 244
 Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10 15

Leu Thr

<210> 245
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 245
 Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr Phe

<210> 246
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 246

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr
1				5					10					15	

Phe Pro

<210> 247

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 247

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe
1				5					10					15	

Pro Lys

<210> 248

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 248

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro
1				5					10					15	

Lys Val

<210> 249

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 249

Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
1				5					10					15	

Val Leu

<210> 250

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 250

Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val
1				5					10					15	

Leu Thr

<210> 251

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 251

Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu
1				5					10					15	

Thr Asp

<210> 252

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 252

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
1				5					10					15	

Asp Lys

<210> 253

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 253

Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly
1				5					10					15	

Arg Gly Thr

<210> 254

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 254

Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg
1				5					10					15	

Gly Thr Pro

<210> 255

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 255

Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly
1				5					10					15	

Thr Pro Ser

<210> 256
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 256
 Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
 1 5 10 15

Pro Ser Ser

<210> 257
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 257
 Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10 15

Ser Ser Tyr

<210> 258
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 258
 Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile

<210> 259
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 259
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp

<210> 260
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 260
 Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp Asn

<210> 261
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 261
 Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp Asn Leu

<210> 262
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 262

Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp
1				5					10					15	

Asn Leu Thr

<210> 263

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 263

Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn
1				5					10					15	

Leu Thr Phe

<210> 264

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 264

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu
1				5					10					15	

Thr Phe Pro

<210> 265

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 265

Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10 15

Phe Pro Lys

<210> 266

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 266

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 1 5 10 15

Pro Lys Val

<210> 267

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 267

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 1 5 10 15

Lys Val Leu

<210> 268

<211> 19

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 268

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 1 5 10 15

Val Leu Thr

<210> 269
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 269
 Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 1 5 10 15

Leu Thr Asp

<210> 270
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 270
 Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr Asp Lys

<210> 271
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 271
 Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
 1 5 10 15

Asp Lys Lys

<210> 272
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 272
 Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 1 5 10 15

Gly Arg Gly Thr
 20

<210> 273
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 273
 Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 1 5 10 15

Arg Gly Thr Pro
 20

<210> 274
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 274
 Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
 1 5 10 15

Gly Thr Pro Ser
 20

<210> 275
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 275
 Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
 1 5 10 15

Thr Pro Ser Ser
 20

<210> 276
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 276
 Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
 1 5 10 15

Pro Ser Ser Tyr
 20

<210> 277
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 277
 Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10 15

Ser Ser Tyr Ile
 20

<210> 278
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 278

Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile Asp
 20

<210> 279

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 279

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn
 20

<210> 280

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 280

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp Asn Leu
 20

<210> 281

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 281

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp Asn Leu Thr
 20

<210> 282

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 282

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10 15

Asn Leu Thr Phe
 20

<210> 283

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 283

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10 15

Leu Thr Phe Pro
 20

<210> 284

<211> 20

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 284

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr Phe Pro Lys
20

<210> 285
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 285
Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
1 5 10 15

Phe Pro Lys Val
20

<210> 286
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 286
Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
1 5 10 15

Pro Lys Val Leu
20

<210> 287
<211> 20
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 287
Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
1 5 10 15

Lys Val Leu Thr
20

<210> 288
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 288
 Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 1 5 10 15

Val Leu Thr Asp
 20

<210> 289
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 289
 Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 1 5 10 15

Leu Thr Asp Lys
 20

<210> 290
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 290
 Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr Asp Lys Lys
 20

<210> 291
 <211> 20
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 291
 Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
 1 5 10 15

Asp Lys Lys Tyr
 20

<210> 292
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 292
 Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn
 1 5 10 15

Trp Gly Arg Gly Thr
 20

<210> 293
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 293
 Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 1 5 10 15

Gly Arg Gly Thr Pro
 20

<210> 294
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 294

Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly
1				5					10					15	

Arg	Gly	Thr	Pro	Ser
				20

<210> 295

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 295

Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg
1			5						10					15	

Gly	Thr	Pro	Ser	Ser
				20

<210> 296

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 296

Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly
1				5					10					15	

Thr	Pro	Ser	Ser	Tyr
				20

<210> 297

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 297

Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
1				5					10					15	

Pro	Ser	Ser	Tyr	Ile
				20

<210> 298

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 298

Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
1				5					10					15	

Ser	Ser	Tyr	Ile	Asp
				20

<210> 299

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 299

Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser
1				5					10					15	

Ser	Tyr	Ile	Asp	Asn
				20

<210> 300

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 300

Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser
1				5					10					15	

Tyr Ile Asp Asn Leu
20

<210> 301
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 301
Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
1 5 10 15

Ile Asp Asn Leu Thr
20

<210> 302
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 302
Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
1 5 10 15

Asp Asn Leu Thr Phe
20

<210> 303
<211> 21
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 303
Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
1 5 10 15

Asn Leu Thr Phe Pro
20

<210> 304
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 304
 Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10 15

Leu Thr Phe Pro Lys
 20

<210> 305
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 305
 Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr Phe Pro Lys Val
 20

<210> 306
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 306
 Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10 15

Phe Pro Lys Val Leu
 20

<210> 307
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 307
 Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 1 5 10 15

Pro Lys Val Leu Thr
 20

<210> 308
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 308
 Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 1 5 10 15

Lys Val Leu Thr Asp
 20

<210> 309
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 309
 Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 1 5 10 15

Val Leu Thr Asp Lys
 20

<210> 310
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 310

Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val
1				5				10						15	

Leu	Thr	Asp	Lys	Lys
			20	

<210> 311

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 311

Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu
1			5					10					15		

Thr	Asp	Lys	Lys	Tyr
			20	

<210> 312

<211> 21

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 312

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
1			5					10					15		

Asp	Lys	Lys	Tyr	Ser
			20	

<210> 313

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 313

Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro
1				5					10					15	

Asn	Trp	Gly	Arg	Gly	Thr
				20	

<210> 314

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 314

Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn
1				5					10					15	

Trp	Gly	Arg	Gly	Thr	Pro
				20	

<210> 315

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 315

Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp
1				5					10					15	

Gly	Arg	Gly	Thr	Pro	Ser
				20	

<210> 316

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 316

Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly
1				5					10					15	

Arg Gly Thr Pro Ser Ser
20

<210> 317
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 317
Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
1 5 10 15

Gly Thr Pro Ser Ser Tyr
20

<210> 318
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 318
Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
1 5 10 15

Thr Pro Ser Ser Tyr Ile
20

<210> 319
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 319
Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
1 5 10 15

Pro Ser Ser Tyr Ile Asp
20

<210> 320
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 320
 Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10 15

Ser Ser Tyr Ile Asp Asn
 20

<210> 321
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 321
 Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile Asp Asn Leu
 20

<210> 322
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 322
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn Leu Thr
 20

<210> 323
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 323
 Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp Asn Leu Thr Phe
 20

<210> 324
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 324
 Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp Asn Leu Thr Phe Pro
 20

<210> 325
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 325
 Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10 15

Asn Leu Thr Phe Pro Lys
 20

<210> 326
 <211> 22
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 326

Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn
1				5					10					15	

Leu	Thr	Phe	Pro	Lys	Val
				20	

<210> 327

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 327

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu
1				5					10					15	

Thr	Phe	Pro	Lys	Val	Leu
				20	

<210> 328

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 328

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr
1				5					10					15	

Phe	Pro	Lys	Val	Leu	Thr
				20	

<210> 329

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 329

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
1 5 10 15

Pro Lys Val Leu Thr Asp
20

<210> 330

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 330

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
1 5 10 15

Lys Val Leu Thr Asp Lys
20

<210> 331

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 331

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
1 5 10 15

Val Leu Thr Asp Lys Lys
20

<210> 332

<211> 22

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 332

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
1 5 10 15

Leu Thr Asp Lys Lys Tyr
20

<210> 333
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 333
Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
1 5 10 15

Thr Asp Lys Lys Tyr Ser
20

<210> 334
<211> 22
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 334
Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
1 5 10 15

Asp Lys Lys Tyr Ser Tyr
20

<210> 335
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 335
Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr
1 5 10 15

Pro Asn Trp Gly Arg Gly Thr
20

<210> 336
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 336

Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro
 1 5 10 15

Asn Trp Gly Arg Gly Thr Pro
 20

<210> 337
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 337

Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn
 1 5 10 15

Trp Gly Arg Gly Thr Pro Ser
 20

<210> 338
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 338

Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 1 5 10 15

Gly Arg Gly Thr Pro Ser Ser
 20

<210> 339
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 339
 Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 1 5 10 15

Arg Gly Thr Pro Ser Ser Tyr
 20

<210> 340
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 340
 Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
 1 5 10 15

Gly Thr Pro Ser Ser Tyr Ile
 20

<210> 341
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 341
 Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
 1 5 10 15

Thr Pro Ser Ser Tyr Ile Asp
 20

<210> 342
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 342

Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
1				5					10					15	

Pro	Ser	Ser	Tyr	Ile	Asp	Asn
				20		

<210> 343

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 343

Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
1				5					10					15	

Ser	Ser	Tyr	Ile	Asp	Asn	Leu
				20		

<210> 344

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 344

Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser
1				5					10					15	

Ser	Tyr	Ile	Asp	Asn	Leu	Thr
				20		

<210> 345

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 345

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn Leu Thr Phe
 20

<210> 346

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 346

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp Asn Leu Thr Phe Pro
 20

<210> 347

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 347

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp Asn Leu Thr Phe Pro Lys
 20

<210> 348

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 348

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10 15

Asn Leu Thr Phe Pro Lys Val
20

<210> 349
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 349
Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
1 5 10 15

Leu Thr Phe Pro Lys Val Leu
20

<210> 350
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 350
Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
1 5 10 15

Thr Phe Pro Lys Val Leu Thr
20

<210> 351
<211> 23
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 351
Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
1 5 10 15

Phe Pro Lys Val Leu Thr Asp
20

<210> 352
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 352
 Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 1 5 10 15

Pro Lys Val Leu Thr Asp Lys
 20

<210> 353
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 353
 Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 1 5 10 15

Lys Val Leu Thr Asp Lys Lys
 20

<210> 354
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 354
 Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 1 5 10 15

Val Leu Thr Asp Lys Lys Tyr
 20

<210> 355
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 355
 Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 1 5 10 15

Leu Thr Asp Lys Lys Tyr Ser
 20

<210> 356
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 356
 Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr Asp Lys Lys Tyr Ser Tyr
 20

<210> 357
 <211> 23
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 357
 Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
 1 5 10 15

Asp Lys Lys Tyr Ser Tyr Arg
 20

<210> 358
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 358

Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr
1				5					10					15	

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
				20			

<210> 359

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 359

Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr
1				5					10					15	

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
				20			

<210> 360

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 360

Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro
1				5					10					15	

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser
				20			

<210> 361

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 361

Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn
 1 5 10 15

Trp Gly Arg Gly Thr Pro Ser Ser
 20

<210> 362

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 362

Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 1 5 10 15

Gly Arg Gly Thr Pro Ser Ser Tyr
 20

<210> 363

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 363

Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 1 5 10 15

Arg Gly Thr Pro Ser Ser Tyr Ile
 20

<210> 364

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 364

Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
 1 5 10 15

Gly Thr Pro Ser Ser Tyr Ile Asp
20

<210> 365

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 365

Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
1 5 10 15

Thr Pro Ser Ser Tyr Ile Asp Asn
20

<210> 366

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 366

Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
1 5 10 15

Pro Ser Ser Tyr Ile Asp Asn Leu
20

<210> 367

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 367

Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
1 5 10 15

Ser Ser Tyr Ile Asp Asn Leu Thr
20

<210> 368
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 368
 Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile Asp Asn Leu Thr Phe
 20

<210> 369
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 369
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn Leu Thr Phe Pro
 20

<210> 370
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 370
 Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp Asn Leu Thr Phe Pro Lys
 20

<210> 371
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 371
 Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp Asn Leu Thr Phe Pro Lys Val
 20

<210> 372
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 372
 Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10 15

Asn Leu Thr Phe Pro Lys Val Leu
 20

<210> 373
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 373
 Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10 15

Leu Thr Phe Pro Lys Val Leu Thr
 20

<210> 374
 <211> 24
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 374

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu
1				5					10					15	

Thr	Phe	Pro	Lys	Val	Leu	Thr	Asp
				20			

<210> 375

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 375

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr
1				5					10					15	

Phe	Pro	Lys	Val	Leu	Thr	Asp	Lys
				20			

<210> 376

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 376

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe
1				5					10					15	

Pro	Lys	Val	Leu	Thr	Asp	Lys	Lys
				20			

<210> 377

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 377

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 1 5 10 15

Lys Val Leu Thr Asp Lys Lys Tyr
 20

<210> 378

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 378

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 1 5 10 15

Val Leu Thr Asp Lys Lys Tyr Ser
 20

<210> 379

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 379

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 1 5 10 15

Leu Thr Asp Lys Lys Tyr Ser Tyr
 20

<210> 380

<211> 24

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 380

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr Asp Lys Lys Tyr Ser Tyr Arg
20

<210> 381
<211> 24
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 381
Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
1 5 10 15

Asp Lys Lys Tyr Ser Tyr Arg Val
20

<210> 382
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 382
Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp
1 5 10 15

Tyr Thr Pro Asn Trp Gly Arg Gly Thr
20 25

<210> 383
<211> 25
<212> PRT
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Synthetic
peptide

<400> 383
Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr
1 5 10 15

Thr Pro Asn Trp Gly Arg Gly Thr Pro
20 25

<210> 384
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 384
 Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr
 1 5 10 15

Pro Asn Trp Gly Arg Gly Thr Pro Ser
 20 25

<210> 385
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 385
 Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro
 1 5 10 15

Asn Trp Gly Arg Gly Thr Pro Ser Ser
 20 25

<210> 386
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 386
 Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn
 1 5 10 15

Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 20 25

<210> 387
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 387
 Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 1 5 10 15

Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 20 25

<210> 388
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 388
 Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 1 5 10 15

Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 20 25

<210> 389
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 389
 Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
 1 5 10 15

Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 20 25

<210> 390
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 390

Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly
1				5					10					15	

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu
			20					25

<210> 391

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 391

Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
1				5					10					15	

Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr
			20					25

<210> 392

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 392

Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
1				5					10					15	

Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe
			20					25

<210> 393

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 393

Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 20 25

<210> 394

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 394

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 20 25

<210> 395

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 395

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp Asn Leu Thr Phe Pro Lys Val
 20 25

<210> 396

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 396

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 1 5 10 15

Asp Asn Leu Thr Phe Pro Lys Val Leu
 20 25

<210> 397

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 397

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 1 5 10 15

Asn Leu Thr Phe Pro Lys Val Leu Thr
 20 25

<210> 398

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 398

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10 15

Leu Thr Phe Pro Lys Val Leu Thr Asp
 20 25

<210> 399

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 399

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr Phe Pro Lys Val Leu Thr Asp Lys
 20 25

<210> 400
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 400
 Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10 15

Phe Pro Lys Val Leu Thr Asp Lys Lys
 20 25

<210> 401
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 401
 Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 1 5 10 15

Pro Lys Val Leu Thr Asp Lys Lys Tyr
 20 25

<210> 402
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 402
 Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 1 5 10 15

Lys Val Leu Thr Asp Lys Lys Tyr Ser
 20 25

<210> 403
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 403
 Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 1 5 10 15

Val Leu Thr Asp Lys Lys Tyr Ser Tyr
 20 25

<210> 404
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 404
 Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 1 5 10 15

Leu Thr Asp Lys Lys Tyr Ser Tyr Arg
 20 25

<210> 405
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 405
 Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr Asp Lys Lys Tyr Ser Tyr Arg Val
 20 25

<210> 406
 <211> 25
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 406

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
1				5					10					15	

Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val	Val
			20					25

<210> 407

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 407

Thr	Ser	Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe
1				5					10					15	

Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
			20						25

<210> 408

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 408

Ser	Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp
1				5					10					15	

Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
			20						25

<210> 409

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 409

Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr
 1 5 10 15

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 20 25

<210> 410

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 410

Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr
 1 5 10 15

Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 20 25

<210> 411

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 411

Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro
 1 5 10 15

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 20 25

<210> 412

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 412

Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn
 1 5 10 15

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
 20 25

<210> 413

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 413

Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 1 5 10 15

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
 20 25

<210> 414

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 414

Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 1 5 10 15

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 20 25

<210> 415

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 415

Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
 1 5 10 15

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 20 25

<210> 416
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 416
 Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
 1 5 10 15

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 20 25

<210> 417
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 417
 Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
 1 5 10 15

Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 20 25

<210> 418
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 418
 Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10 15

Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 20 25

<210> 419
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 419
 Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 20 25

<210> 420
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 420
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 20 25

<210> 421
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 421
 Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 20 25

<210> 422
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 422

Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile
1				5					10					15	

Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
		20						25	

<210> 423

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 423

Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp
1				5					10					15	

Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr	Asp
		20						25	

<210> 424

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 424

Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn
1				5					10					15	

Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr	Asp	Lys
		20						25	

<210> 425

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 425

Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr Phe Pro Lys Val Leu Thr Asp Lys Lys
 20 25

<210> 426

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 426

Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10 15

Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 20 25

<210> 427

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 427

Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 1 5 10 15

Pro Lys Val Leu Thr Asp Lys Lys Tyr Ser
 20 25

<210> 428

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 428

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 1 5 10 15

Lys Val Leu Thr Asp Lys Lys Tyr Ser Tyr
 20 25

<210> 429

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 429

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 1 5 10 15

Val Leu Thr Asp Lys Lys Tyr Ser Tyr Arg
 20 25

<210> 430

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 430

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 1 5 10 15

Leu Thr Asp Lys Lys Tyr Ser Tyr Arg Val
 20 25

<210> 431

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 431

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val
 20 25

<210> 432

<211> 26

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 432

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
1				5					10					15	

Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val	Val	Val
			20				25		

<210> 433

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 433

Ala	Thr	Ser	Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp
1				5					10					15	

Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
			20					25		

<210> 434

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 434

Thr	Ser	Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe
1				5					10					15	

Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro
			20					25		

<210> 435

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 435

Ser	Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp
1				5					10					15	

Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser
			20					25		

<210> 436

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 436

Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr
1				5					10					15	

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser
			20					25		

<210> 437

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 437

Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr
1				5					10					15	

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr
			20					25		

<210> 438

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 438

Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro
1				5					10					15	

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile
			20					25		

<210> 439

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 439

Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn
1				5					10					15	

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp
			20						25	

<210> 440

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 440

Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp
1				5					10					15	

Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn
			20						25	

<210> 441

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 441

Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 1 5 10 15

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 20 25

<210> 442

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 442

Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg
 1 5 10 15

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 20 25

<210> 443

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 443

Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly
 1 5 10 15

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 20 25

<210> 444

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
 peptide

<400> 444

Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr
 1 5 10 15

Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro
 20 25

<210> 445
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 445
 Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10 15

Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys
 20 25

<210> 446
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 446
 Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 20 25

<210> 447
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 447
 Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 20 25

<210> 448

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 448

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
1 5 10 15

Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
20 25

<210> 449

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 449

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
1 5 10 15

Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp
20 25

<210> 450

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 450

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
1 5 10 15

Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys
20 25

<210> 451
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 451
 Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 1 5 10 15

Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys
 20 25

<210> 452
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 452
 Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
 20 25

<210> 453
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 453
 Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10 15

Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr Ser
 20 25

<210> 454
 <211> 27
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 454

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe
1				5					10					15	

Pro	Lys	Val	Leu	Thr	Asp	Lys	Lys	Tyr	Ser	Tyr
			20					25		

<210> 455

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 455

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro
1				5					10					15	

Lys	Val	Leu	Thr	Asp	Lys	Lys	Tyr	Ser	Tyr	Arg
			20					25		

<210> 456

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 456

Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
1				5					10					15	

Val	Leu	Thr	Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val
			20					25		

<210> 457

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 457

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 1 5 10 15

Leu Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val
 20 25

<210> 458

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 458

Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 1 5 10 15

Thr Asp Lys Lys Tyr Ser Tyr Arg Val Val Val
 20 25

<210> 459

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 459

Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
 1 5 10 15

Asp Lys Lys Tyr Ser Tyr Arg Val Val Val Asn
 20 25

<210> 460

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 460

Ser Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile
 1 5 10 15

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic peptide

Ala Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp
1 5 10 15

Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
20 25

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic peptide

Thr Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe
1 5 10 15

Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
20 25

<213> Artificial Sequence

<223> Description of Artificial Sequence: Synthetic peptide

Ser Leu Thr Phe Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp
1 5 10 15

Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
20 25

<210> 464

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 464

Leu	Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr
1				5					10					15	

Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr
				20				25			

<210> 465

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 465

Thr	Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr
1				5					10					15	

Pro	Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile
				20				25			

<210> 466

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic
peptide

<400> 466

Phe	Gln	Leu	Ala	Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro
1				5					10					15	

Asn	Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp
				20				25			

<210> 467
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 467
 Gln Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn
 1 5 10 15

Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
 20 25

<210> 468
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 468
 Leu Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp
 1 5 10 15

Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 20 25

<210> 469
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 469
 Ala Tyr Leu Val Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly
 1 5 10 15

Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 20 25

<210> 470
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 470

Tyr	Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg
1				5					10					15	

Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe
			20					25			

<210> 471

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 471

Leu	Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly
1				5					10					15	

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro
			20					25			

<210> 472

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 472

Val	Lys	Lys	Ile	Asp	Phe	Asp	Tyr	Thr	Pro	Asn	Trp	Gly	Arg	Gly	Thr
1				5					10					15	

Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
			20					25			

<210> 473

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 473

Lys Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro
 1 5 10 15

Ser Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val
 20 25

<210> 474

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 474

Lys Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser
 1 5 10 15

Ser Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu
 20 25

<210> 475

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 475

Ile Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser
 1 5 10 15

Tyr Ile Asp Asn Leu Thr Phe Pro Lys Val Leu Thr
 20 25

<210> 476

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 476

Asp Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr
 1 5 10 15

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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
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<400> 477
Phe Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile
1 5 10 15

Asp Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys
20 25

```
<210> 478
<211> 28
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
```

<400> 478
Asp Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp
1 5 10 15

Asn Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys
20 25

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<210> 479
<211> 28
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Synthetic
      peptide
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```

<400> 479
Tyr Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn
1          5          10          15

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Leu Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr
20 25

<210> 480
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 480
 Thr Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu
 1 5 10 15

Thr Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr Ser
 20 25

<210> 481
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 481
 Pro Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr
 1 5 10 15

Phe Pro Lys Val Leu Thr Asp Lys Lys Tyr Ser Tyr
 20 25

<210> 482
 <211> 28
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence: Synthetic
 peptide

<400> 482
 Asn Trp Gly Arg Gly Thr Pro Ser Ser Tyr Ile Asp Asn Leu Thr Phe
 1 5 10 15

Pro Lys Val Leu Thr Asp Lys Lys Tyr Ser Tyr Arg
 20 25

<210> 483

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 483

Trp	Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro
1				5				10						15	

Lys	Val	Leu	Thr	Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val
			20				25				

<210> 484

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 484

Gly	Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys
1				5				10						15	

Val	Leu	Thr	Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val	Val
			20				25				

<210> 485

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 485

Arg	Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val
1				5				10						15	

Leu	Thr	Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val	Val	Val
			20				25				

<210> 486

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 486

Gly	Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu
1				5					10					15	

Thr	Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val	Val	Val	Asn
			20				25				

<210> 487

<211> 28

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic peptide

<400> 487

Thr	Pro	Ser	Ser	Tyr	Ile	Asp	Asn	Leu	Thr	Phe	Pro	Lys	Val	Leu	Thr
1				5				10					15		

Asp	Lys	Lys	Tyr	Ser	Tyr	Arg	Val	Val	Val	Asn	Gly
			20				25				

<210> 488

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic 6xHis tag

<400> 488

His	His	His	His	His	His
1				5	